



INVENT THE SUMMER

Week 7: Bucket Tower

1 Complete the Challenge.

Build a tower strong enough to hold a hanging bucket full of... something. This can be a table-top model using miniature materials.

For kids
12 and
under!

The Rules

You CAN:

- ✓ Use anything you want for your bucket: a cup, bowl, bottle, box or a real bucket.
- ✓ Make the tower any size. It can be 8-inches or 8-feet tall, as long as it holds up your bucket!
- ✓ Use anything you want to fill your bucket. This will depend on the size of bucket. Pennies work well for small cups. Rocks, books or balls work well in a real bucket.

You CAN'T:

- ✗ Lean the tower against something. It must be free standing.
- ✗ Restrain your bucket in any way - it can't be propped up by the tower or sit on a platform. It must hang freely.
- ✗ Create a scaffold with chairs and a stick. The sides of your tower should be made using weak materials together in a way that makes them stronger.

Once you figure out how to suspend your bucket, see how much weight it can hold.

🤔 Our tips to avoid angry parents 😊

DON'T

- 🤔 Don't take apart any furniture to harvest parts for your tower.
- 🤔 Put living or fragile items in your bucket.
- 🤔 Swing the bucket into someone's head.
- 🤔 Fill your bucket with things that could damage the house or injure a person.

DO:

- 😊 Ask permission to use the items you wish to build your tower with.
- 😊 Build your tower in an out of the way place. Outside is a great choice!
- 😊 Clean up after yourself.

2 Create a video of your Bucket Tower.

Try to keep your video under 1-minute long and include the following:

- The name of your solution.
- How does it work?
- What kind of materials did you use?
- Did you have any problems figuring out the solution?
- What was the biggest lesson you learned?

Remember, your video will be visible to anyone with an internet connection, so it's important to protect your privacy and stay safe. [Click here](#) to see our video submission and safety tips.

3 Enter the contest by 9:00pm EST on August 16, 2020.

Ask a parent to upload your video to [YouTube](#) or [Vimeo](#). Then use our [online entry form](#) to send us the link. All entries must be completed by a parent or legal guardian.

All contest entries will receive **1** ticket for our big end-of-the-summer prize drawing! You can receive bonus tickets anytime someone enters their first *Invent the Summer* challenge and credits you for telling them about us!

**All videos will be reviewed prior to publishing online to ensure the content is appropriate for all ages.*

4 View other solutions and VOTE!

You can see all the solutions and vote for your favorites from 8:00am EST on Monday, August 17 until 5:00pm EST on Tuesday, August 18. See our [voting rules](#) for more information.

5 Winners announced by 8:00pm on August 18!

Audience Choice Award: Goes to the solution with the most votes.

Editor's Choice Award: Selected by the Junior Board of Engineers. Solutions will be judged on originality, execution and presentation.

Winners receive their choice of an *Invent the Summer* t-shirt or drawstring bag.